

University of Mumbai

Program: Master of Computer Applications

Curriculum Scheme: MCA 2 YEAR COURSE

Examination: MCA First Year SEMESTER 2

Course Code: 70660 and Course Name: Geographic Information System

Time: 2.5 hours

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	GIS provides which of the following sets of capabilities?
Option A:	Data tracking, database creation, tool analysis
Option B:	Data capture, data management, data manipulation & analysis, data presentation
Option C:	DBMS, data analytics, capacity handling,
Option D:	Database creation, tool management, data presentation, vector analysis
2.	GIS software provides support for__
Option A:	raster data
Option B:	vector data
Option C:	thematic data
Option D:	informative data
3.	Which of the following is not a topological property?
Option A:	Boundary
Option B:	Dot
Option C:	Nodes, Lines, Polygons
Option D:	Size
4.	What is point in polygon overlay?
Option A:	A method interpolating point data
Option B:	An overlay method used to determine which points lie within boundary of polygon.
Option C:	An overlay method used to reclassify polygon data.
Option D:	An overlay method to determine distance between a point and its nearest polygon.
5.	Spatial databases are known as :
Option A:	Hierarchical databases
Option B:	Mono databases
Option C:	Concurrent databases
Option D:	Geodatabases
6.	A GIS package cannot be called full-fledged if the following capabilities are missing

Option A:	Concurrent databases
Option B:	Geo Media
Option C:	Database Management System
Option D:	Data storage & Data analysis
7.	Which of the following acts a benefit of GIS?
Option A:	Maintaining geo spatial data
Option B:	Data sharing
Option C:	Accurate data information
Option D:	Presence of data retrieval service
8.	Key components of 'spatial data' quality include
Option A:	Positional accuracy
Option B:	Temporal accuracy
Option C:	Lineage and completeness
Option D:	All of the above
9.	TIN stands for
Option A:	Traffic Internet Network
Option B:	Triangulated Irregular Network
Option C:	Temporal Interest Network
Option D:	Temperature Interface Node
10.	SDI stands for
Option A:	Spatial Data Interface
Option B:	Spatial Data Infrastructure
Option C:	Spatial Data Intention
Option D:	Spatial Data International

<b>Q2</b>	<b>Solve any Two Questions out of Three</b>	<b>10 marks each</b>
A	Explain in detail the Raster Data Model.	
B	Write a note on applications of Geocoding and Dynamic Segmentation.	
C	What is Remote Sensing? Explain the types and advantages of remote sensing.	
<b>Q3</b>	<b>Solve any Two Questions out of Three</b>	<b>10 marks each</b>
A	Explain in detail the GIS? List the components and elements of GIS	
B	What is Remote Sensing technologies? Explain with suitable example.	
C	Describe in detail the Spatial data. What are the types of spatial data?	
<b>Q4.</b>	<b>Solve any Two Questions out of Three</b>	<b>10 marks each</b>
A	Explain in detail the representation of spatial features in vectors data model.	

B	Explain briefly the GIS integration with web and mobile technology.
C	Explain the term: 1) Line-of-Sight Operation 2) Hill Shading 3) TIN-Based analysis 4) Point-Based Watersheds

muquestionpapers.com